

Please amend the instant application as follows:

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A mobile node supporting router comprising:

a home link interface connected to a home link of a mobile node; and

a foreign link interface connected to a foreign link of the mobile node;

the foreign link interface having an encapsulating cache for storing binding information of the mobile node and a processor for encapsulating a packet addressed to the mobile node with a care-of address included in the binding information,

wherein

the binding information comprises information associating a home address of the mobile node with a care-of address at a time of moving, and

the binding information associates an output interface which outputs the encapsulated packet with the care-of address.

Claims 2 – 3 (Cancelled)

4.(Original) The mobile node supporting router as claimed in claim 1 wherein the binding information includes a lifetime of the binding information itself.

5. (Original) The mobile node supporting router as claimed in claim 1 wherein the processor transmits the encapsulated packet to an output interface through a packet transfer route.

6. (Previously Presented) The mobile node supporting router as claimed in claim 1 wherein the processor provides the encapsulated packet to the output interface.

7. (Currently Amended) The mobile node supporting router as claimed in claim 1 wherein when receiving a binding demand packet from the mobile node, the processor stores the binding information included in the binding demand packet in the encapsulating cache.

8. (Original) The mobile node supporting router as claimed in claim 7 wherein the processor provides a binding reply packet for the binding demand packet to an output interface through a packet transfer route.

9. (Currently Amended) The mobile node supporting router as claimed in claim 7 wherein the encapsulating cache stores an output interface for outputting the binding reply packet in association with a care-of address of the mobile node within the binding information, and

the processor provides the binding reply packet to the output interface based on the binding information.

10. (Currently Amended) The mobile node supporting router as claimed in claim 1 wherein when the encapsulating cache does not store the binding information of the mobile node upon receiving a packet associated with the mobile node, the processor acquires the binding information from a home agent.

11. (Currently Amended) The mobile node supporting router as claimed in claim 10 wherein the packet associated with the mobile node comprises a packet addressed to the node.

12. (Currently Amended) The mobile node supporting router as claimed in claim 10 wherein the packet associated with the mobile node comprises a binding demand packet from the node.

13. (Original) The mobile node supporting router as claimed in claim 10 wherein the processor notifies the home agent, by a request message, that the processor does not store the binding information.

14. (Original) The mobile node supporting router as claimed in claim 10 wherein the processor notifies the home agent, through a packet transfer route by assigning to the packet an identifier of a foreign link interface to which the processor itself belongs, that the processor does not store the binding information.

15. (Original) The mobile node supporting router as claimed in claim 10 wherein the processor acquires the binding information from the home agent through an in-device control route.

16. (Original) The mobile node supporting router as claimed in claim 10 wherein the processor acquires necessary information from a routing table through an in-device control route.

17. (Original) The mobile node supporting router as claimed in claim 10 wherein when

the mobile node supporting router does not store the binding information, the

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